

CV



Personal information

Full Name: Abdolmajid Ghasemian

Nationality: Iranian

Birth: Fasa, Fars province, Iran

Date of birth: 22.12.1988

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Education

Ph.D. of Medical Bacteriology

Tarbiat Modares University- Tehran

2013-2018

Year of Graduation: 2018

MSc. of Medical Microbiology

Tarbiat Modares University

2010-2012

BSc. Of Laboratory sciences

Mashhad Ferdowsi University

2006-2009

MSc thesis topic: Prevalence of genes involved in biofilm formation between Methicillin resistant *staphylococcus aureus* compared to susceptible clinical isolates

Supervisor: Dr. Shahin Najar Peerayeh

Ph.D. thesis topic: Assessment the correlation of antibiotic resistance with expression of adhesion molecules and biofilm formation in toxigenic *Klebsiella oxytoca* strains isolated from patients with hemorrhagic colitis

Supervisor: Dr. Ashraf Mohabati Mobarez

Technical Skills

Software

- 1- Microsoft office software
2. Graph Pad Prism (data analysis)
3. Scientific and General Database Search
4. Operating systems: Microsoft windows
5. Endnote software

Laboratory skills

- 1- Common microbial diagnostic tests
- 2- Polymerase chain reaction (PCR) protocols
- 3- Real-time PCR
- 4- Nested PCR
- 5- PCR-RFLP
- 6- Western blotting

Working experience (prior job)

Research assistant at Pasteur institute of Iran, Department of Epidemiology during 2012-2015

Research assistant at Fasa University of Medical Sciences

Workshops

- 1- Flow cytometry
- 2- Real-time PCR
- 3- Primer designing
- 4- Laboratory animals
- 5- Data analysis using SPSS and Graph Pad Prism 8.1

Citations

Google Scholar citations

<https://scholar.google.com/citations?user=tRYB66YAAAAJ&hl=en&oi=ao>

Citations: 836, H- index: 16, Scopus H-index: 12

Current work

Translation of books and papers

Common projects with Fasa University of Medical Sciences, Department of Microbiology

Reviewer of journals

Journal of Cellular Physiology, Iranian Journal of Pathology, Reviews in Medical Microbiology, Caspian Journal of Internal Medicine, Microbial Pathogenesis, Arab Journal of Gastroenterology, Gene Reports, Archives of Iranian Medicine, Chinese Journal of Herbal Medicine, Nano-medicine, Meta Gene, International Journal of Molecular and Cellular Medicine, Archives of Razi Institute

Honor

1- First Place/Rank in MSc. Ministry of Health Exam in Medical Microbiology, 2009

2- First Place/Rank in P.hD. Exam in Medical Bacteriology, 2013

Publications

1. Memariani H, Memariani M, [Ghasemian A](#). An overview on anti-biofilm properties of quercetin against bacterial pathogens. [World Journal of Microbiology and Biotechnology](#). 2019;35(9):143 (IF=2.5).
2. Abdulridha MK, Al-Marzoqi A-H, [Ghasemian A](#). The Anticancer Efficiency of Citrullus colocynthis Toward the Colorectal Cancer Therapy. [Journal of gastrointestinal cancer](#). 2019:1-6.
3. Ali ANM, Kareem SM, [Ghasemian A](#). Assessment of MMP29 Gene Expression and Silver Nanoparticles Effects on Colon Cancer Cell Line (HT29). [Journal of gastrointestinal cancer](#). 2019:1-4.
4. Al-abodi HR, Al-Shadeedi SM, Al-Alo K, [Ghasemian A](#). Zataria Multiflora bois as an auspicious therapeutic approach against Echinococcus granulosus: Current status and future perspectives. [Comparative immunology, microbiology and infectious diseases](#). 2019;66:101335.
5. Alghanimi YK, [Ghasemian A](#). Inhibitory Traits of Dendrosome Curcumin (DNC) on Breast Cancer Compared to Curcumin Single Compound. [Journal of gastrointestinal cancer](#). 2019:1-7.
6. [Ghasemian A](#), Nojoomi F, Rajabi-Vardanjani H. Silicotuberculosis as an occupational infection: rate, risk factors and control strategies. [Archives of environmental & occupational health](#). 2019:1-3.
7. Keikha M, Eslami M, Yousefi B, [Ghasemian A](#), Karbalaei M. Potential antigen candidates for subunit vaccine development against Helicobacter pylori infection. [Journal of cellular physiology](#). 2019 (IF=4.5).
8. Alnomani Y, [Ghasemian A](#), Memariani M, Eslami M, Sabokrouh A, Abbas AF, et al. The association of acetylacetate (Acr AB-Tol C) and QepA genes with multiple antibiotic resistance among Escherichia coli clinical isolates. [Reviews in Medical Microbiology](#). 2019;30:000.

9. [Ghasemian A](#), Mobarez AM, Peerayeh SN, Abadi ATB, Khodaparast S, Mahmood SS. Expression of adhesin genes and biofilm formation among *Klebsiella oxytoca* clinical isolates from patients with antibiotic-associated haemorrhagic colitis. [Journal of medical microbiology](#). 2019;68(7):978-85 (IF=2.7).
10. Alkhudhairy MK, Alshadeedi SM, Mahmood SS, Al-Bustan SA, [Ghasemian A](#). Comparison of adhesin genes expression among *Klebsiella oxytoca* ESBL-non-producers in planktonic and biofilm mode of growth, and imipenem sublethal exposure. [Microbial pathogenesis](#). 2019;134:103558 (IF=2.8).
11. [Ghasemian A](#), Al-Marzoqi A-H, Mostafavi SKS, Alghanimi YK, Teimouri M. Chemical Composition and Antimicrobial and Cytotoxic Activities of *Foeniculum vulgare* Mill Essential Oils. [Journal of gastrointestinal cancer](#). 2019:1-7.
12. [Ghasemian A](#), Eslami M, Hasanvand F, Bozorgi H, Al-abodi HR. *Eucalyptus camaldulensis* properties for use in the eradication of infections. [Comparative Immunology, Microbiology and Infectious Diseases](#). 2019;65:234-7 (IF=2.8).
13. [Ghasemian A](#), Al-marzoqi AH, Al-abodi HR, Alghanimi YK, Kadhum SA, Shokouhi Mostafavi SK, et al. Bacterial l-asparaginases for cancer therapy: Current knowledge and future perspectives. [Journal of cellular physiology](#). 2019 (IF=4.5).
14. [Ghasemian A](#), Fattahi A, Shokouhi Mostafavi SK, Almarzoqi AH, Memariani M, Ben Braiek O, et al. Herbal medicine as an auspicious therapeutic approach for the eradication of *Helicobacter pylori* infection: A concise review. [Journal of cellular physiology](#). 2019 (IF=4.5).
15. Eslami M, Yousefi B, kokhaei P, Arabkari V, [Ghasemian A](#). Current information on the association of *Helicobacter pylori* with autophagy and gastric cancer. [Journal of cellular physiology](#). 2019;234(9):14800-11 (IF=4.5).
16. Nojoomi F, [Ghasemian A](#). The relation of phylogroups, serogroups, virulence factors and resistance pattern of *Escherichia coli* isolated from children with septicemia. [New microbes and new infections](#). 2019;29:100517.

17. Mazarzaei A, Vafaei M, [Ghasemian A](#), Mirforoughi SA, Rajabi Vardanjani H, Alwan NA. Memory and CAR-NK cell-based novel approaches for HIV vaccination and eradication. [Journal of cellular physiology](#). 2019;234(9):14812-7.
18. Kianfar N, [Ghasemian A](#), Al-Marzoqi AH, Eslami M, Vardanjani HR, Mirforoughi SA, et al. The reemergence of glanders as a zoonotic and occupational infection in Iran and neighboring countries. [Reviews in Medical Microbiology](#). 2019;30(3):191-6.
19. Yousefi B, Eslami M, [Ghasemian A](#), Kokhaei P, Sadeghnejhad A. Probiotics can really cure an autoimmune disease? [Gene Reports](#). 2019:100364.
20. Eslami M, Shafiei M, [Ghasemian A](#), Valizadeh S, Al-Marzoqi AH, Shokouhi Mostafavi SK, et al. Mycobacterium avium paratuberculosis and Mycobacterium avium complex and related subspecies as causative agents of zoonotic and occupational diseases. [Journal of cellular physiology](#). 2019;234(8):12415-21.
21. Shafiei M, [Ghasemian A](#), Mostafavi SK, Teimouri M, Vardanjani HR, Mirforoughi SA. Gold nanoparticle-based colorimetric platform technology as rapid and efficient bacterial pathogens detection method from various sources. [Reviews in Medical Microbiology](#). 2019;30(2):128-32.
22. Yousefi B, Eslami M, [Ghasemian A](#), Kokhaei P, Salek Farrokhi A, Darabi N. Probiotics importance and their immunomodulatory properties. [Journal of cellular physiology](#). 2019;234(6):8008-18.
23. [Ghasemian A](#), Nojoomi F, Najafi-olya Z, Rajabi-Vardanjani H, Rajabi-Vardanjani H. Antimicrobial Features of Cerastoderma and Didacna Double Basins Peptides. [Int J Enteric Pathog](#). 2018;6(3):75-8.
24. Shafiei M, [Ghasemian A](#), Eslami M, Nojoomi F, Rajabi-Vardanjani H. Risk factors and control strategies for silicotuberculosis as an occupational disease. [New microbes and new infections](#). 2018.
25. Ghasemian A, Eslami M, Shafiei M, Najafipour S, Rajabi A. Probiotics and their increasing importance in human health and infection control. [Reviews in Medical Microbiology](#). 2018;29(4):153-8.
26. [Ghasemian A](#), Shafiei M, Hasanvand F, Mostafavi SKS. Carbapenem and colistin resistance in Enterobacteriaceae: worldwide spread and future perspectives. [Reviews in Medical Microbiology](#). 2018;29(4):173-6.

27. [Ghasemian A](#), Mobarez AM, Peerayeh SN, Abadi ATB, Khodaparast S, Nojoomi F. Report of plasmid-mediated colistin resistance in *Klebsiella oxytoca* from Iran. [Reviews in Medical Microbiology](#). 2018;29(2):59-63.
28. Eslami M, [Ghasemian A](#), Najafiolya Z, Mirforughi SA, Nojoomi F. Silymarin and curcumin effects on virulence and carbapenemase genes among multidrug-resistant *Escherichia coli* clinical isolates. [Reviews in Medical Microbiology](#). 2018;29(4):177-81.
29. Yahyaie S, Nojoomi F, Shafiei M, [Ghasemian A](#). Immunogenicity of a *Brucella abortus* 55-kDa recombinant surface protein conjugated with detoxified lipopolysaccharide in black and albino type C mouse model. [Reviews in Medical Microbiology](#). 2018;29(3):140-5.
30. [Ghasemian A](#), Nojoomi F, Abhari MH, Mehrabadi JF. A multiplex real-time PCR technique for simultaneous detection of *Listeria monocytogenes* and *Streptococcus agalactiae* among asymptomatic pregnant women. [Reviews in Medical Microbiology](#). 2018;29(3):136-9.
31. Heidarzadeh S, Ghasemian A, Kalafi Z, Nikkhahi F, Dallal MMS. Antimicrobial effects of amniotic membrane on some bacterial strains. [Immunopathologia Persa](#). 2018;4(2).
32. Ababaf S, Ghasemian A, Motamedi H, Nojoomi F. Prevalence of enterotoxins B and C in clinical isolates of *Staphylococcus aureus* from Southwest of Iran. [Immunopathologia Persa](#). 2018;4(2).
33. Ghasemian A, Nojoomi F, Mahrooghi M, Mirforughi SA. Role of Enterotoxin-Producing *Staphylococci* in Zoonotic Infections in Iran. [Int J Enteric Pathog](#). 2018;6(2):33-5.
34. [Ghasemian A](#), Mostafavi SKS, Eslami M, Vafaei M, Nojoomi F, Hasanvand F. Antibiotic resistance and presence of bla (PER-1) bla (VEB-1) and bla (PSE-1) beta-lacamasases among clinical isolates of *Pseudomonas aeruginosa* from ICU settings. [Immunopathologia Persa](#). 2018;4(2).
35. Nojoomi F, Ghasemian A, Fallahi S, Abdollahzadeh S. High prevalence and risk factors of hepatitis B, C and E infections among Middle Eastern countries. [Immunopathol Persa](#). 2018;4(2):e18.

36. [Ghasemian A](#), Mostafavi S, Kh S. Antimicrobial Effects of Aqueous and Alcoholic Extracts of *Allium schoenoprasum* on Some Bacterial Pathogens. *Infection Epidemiology and Microbiology*. 2018;4(1):1-4.
37. Kalantar E, Taati N, Ghasemian A. Detection of alarming increase in antibiotic resistant neisseria gonorrhoeae isolates in karaj, Iran. *MOJ Immunol*. 2018;6(2):44-7.
38. Ghasemian A, Nojoomi F, RajabiVardanjani H. The Anthrax Disease in Iran From 2000 to 2016: The Predominance of Cutaneous and Gastrointestinal Form. *Int J Enteric Pathog*. 2018;6(1):10-3.
39. Ghasemian A, Shafiei M, Eslami M, Vafaei M, Nojoom F, Rajabi-Vardanjani H. Molecular Typing of *Klebsiella pneumoniae* isolates using Repetitive Extragenic Palindromic Sequence-Based PCR in a Hospital in Tehran, Iran. *Int J Enteric Pathog*. 2018;6(1):27-30.
40. [Ghasemian A](#), Rizi KS, Vardanjani HR, Nojoomi F. Prevalence of clinically isolated Metallo-beta-lactamase-producing *Pseudomonas aeruginosa*, coding genes, and possible risk factors in Iran. [Iranian journal of pathology](#). 2018;13(1):1.
41. Bagheri Z, [Ghasemian A](#), Mostafavi SKS, Doosti A. Cloning and Expression of HP0242 Hypothetical Gene as a DNA vaccine Candidate for *Helicobacter pylori* and Study of Its Immunoreactivity. [Archives of Clinical Infectious Diseases](#). 2018;13(1).
42. Nojoomi F, [Ghasemian A](#). Resistance and Virulence Factor Determinants of Carbapenem-Resistant *Escherichia Coli* Clinical Isolates in Three Hospitals in Tehran, Iran. *Infection Epidemiology and Microbiology*. 2017;3(4):107-11.
43. Farahnejad Z, Izadpanah M, [Ghasemian A](#), Nojoomi F. Antibacterial Effect of *Seidlitzia rosmarinus* Extract and Silver Nanoparticles on *Staphylococcus aureus* and *Klebsiella pneumoniae* Isolated from Urinary Tract Infections. *Annals of Military and Health Sciences Research*. 2017;15(3).
44. [Ghasemian A](#), Nojoomi F, Eslami M. The Rep-PCR Typing of TEM type ESBL Producing Clinical Isolates of *Klebsiella Pneumonia*. *MOJ Cell Sci Rep*. 2017;4(4):98-102.
45. GHASEMIAN A, MOHABATI MA, KHODAPARAST S, NAJAR PS, TALEBI BA. BIOFILM FORMATION AMONG BETA-LACTAMASE

PRODUCING KLEBSIELLA OXYTOCA ISOLATES FROM PATIENTS WITH HEMORRHAGIC COLITIS. 2017; (Poster).

46. ESLAMI M, GHASEMIAN A, SHOKOUHI MSK, HEIDARZADEH S. IDENTIFICATION OF CTX-M, SHV AND TEM PRODUCING KLEBSIELLA PNEUMONIAE WITH USING OF REP-PCR TYPING ASSAY. 2017; (Poster).

47. GHASEMIAN A, EBRAHIMI S. CLONING AND EXPRESSION ASSESSMENT OF URICASE GENE FROM BACILLUS SUBTILIS IN SOME ESCHERICHIA COLI STRAINS. 2017; (Poster).

48. Nojoomi F, [Ghasemian A](#), Eslami M, Khodaparast S. Antibiotic susceptibility profile, ESBL production and blaCTX-M1, blaSHV and blaTEM types among Escherichia coli blood isolates. *Int J Enteric Pathog*. 2017;5(1):9-12.

49. Salehi M, [Ghasemian A](#), Mostafavi SKS, Najafi S, Vardanjani HR. Sero-prevalence of helicobacter pylori infection in Neyshabur, Iran, during 2010-2015. [Iranian journal of pathology](#). 2017;12(2):183.

50. Salehi M, Mostafavi SKS, [Ghasemian A](#), Gholami M, Kazemi-Vardanjani A, Rahimi MK. Seroepidemiology of HTLV-1 and HTLV-2 infection in Neyshabur city, North-Eastern Iran, during 2010-2014. [Iranian biomedical journal](#). 2017;21(1):57.

51. Davodian E, Sadeghifard N, [Ghasemian A](#), Noorbakhsh S. Presence of blaPER-1 and blaVEB-1 beta-lactamase genes among isolates of Pseudomonas aeruginosa from South West of Iran. [Journal of epidemiology and global health](#). 2016;6(3):211-3.

52. [Ghasemian A](#), Peerayeh SN, Bakhshi B, Mirzaee M. Comparison of biofilm formation between Methicillin-resistant and methicillin-susceptible isolates of Staphylococcus aureus. [Iranian biomedical journal](#). 2016;20(3):175.

53. Najari-Peerayeh S, Moghaddas AJ, Bakhshi B, [Ghasemian A](#). Diversity of the SCCmec types among Staphylococcus epidermidis clinical isolates from intensive care unit patients. [Asian Pacific Journal of Tropical Disease](#). 2016;6(2):133-5.

54. Davodian E, Sadeghifard N, [Ghasemian A](#), Noorbakhsh S. Presence of blaPER-and blaVEB-beta-lactamase genes among isolates. 2016.

55. [Ghasemian A](#), Taati N, Shokuhi SK, KAZEMI VA. Malaria Prevalence in the Middle East. 2016.
56. Nojoomi F, Ghasemian A. Prevalence of ESBL phenotype, blaCTX-M-1, blaSHV and blaTEM genes among uropathogenic Escherichia coli isolates from 3 military hospitals of Tehran, Iran. *Journal of Coastal Life Medicine*. 2016;4(8):616-8.
57. Ebrahimi S, Jamei R, [Ghasemian A](#), MOSTAFAVI S. In Silico comparison of disulfide-bearing and disulfide-free phytases among microorganisms. *J Pharm Nutr Sci*. 2016;7:24-34.
58. Salehi M, [Ghasemian A](#), Shokouhi Mostafavi SK, Nojoomi F, Ashiani D, Rajabi Vardanjani H. The epidemiology of Candida species isolated from urinary tract infections. *Archives of Clinical Infectious Diseases*. 2016;11(4).
59. [Ghasemian A](#), Norouzi F, Ashiani D. Prevalence of blaPER-in ESBL-producing Clinical Isolates of Pseudomonas aeruginosa in the ICUs of Several Iranian Hospitals. *GEN*. 2016;68:46.
60. Ghasemian A, Mirzaee M. Methicillin resistant Staphylococcus Aureus (MRSA) strains and the Staphy-lococcal cassette chromosome mec types in Iran. *Infect Epidemiol Med*. 2016;2(3):31-4.
61. Ghasemian A, Mostafavi SKS, Vardanjani A-RK. Human immunodeficiency virus (HIV) distribution in Middle East region. *Avicenna J Clin Microb Infect*. 2016;3:e35965.
62. MOLAYI KS, DEILAMI KZ, Ghasemian A, SHAPOURI R, Taghinejad J, Eslami M, et al. Detection of hblA and bal genes in Bacillus cereus isolates from cheese samples using the polymerase chain reaction. 2016.
63. Nojoomi F, [Ghasemian A](#). Effect of overgrowth or decrease in gut microbiota on health and disease. *Archives of Pediatric Infectious Diseases*. 2016;4(2).
64. Ghasemian A, Najar Peerayeh S, Bakhshi B, Mirzaee M. The prevalence of icaADBC Genes among Clindamycin Inducible Resistant Staphylococcus aureus Isolates. *Infection, Epidemiology and Microbiology*. 2016;2(1):15-7.
65. [Ghasemian A](#), Peerayeh SN, Bakhshi B, Mirzaee M. Detection of accessory gene regulator groups genes and cassette chromosome mec types among

Staphylococcus aureus isolated from intensive care unit patients. [Asian Pacific journal of tropical disease](#). 2015;5(2):153-7.

66. [Ghasemian M](#), Owlia MB. A different look at pulsed glucocorticoid protocols; is high dose oral prednisolone really necessary just after initiation of pulse therapy. [Journal of Case Reports in Practice](#). 2015;3(1):1-3.
67. Davodian E, Sadeghifard N, [Ghasemian A](#), Noorbakhsh S. Molecular detection of bla VEB-1 beta-lactamase encoding gene among extended spectrum B-Lactamase positive wound isolates of Pseudomonas aeruginosa. [Archives of Pediatric Infectious Diseases](#). 2015;3(4).
68. [Ghasemian A](#), Peerayeh SN, Bakhshi B, Mirzaee M. High Frequency of icaAD, clumping factors A/B, fib and eno Genes in Staphylococcus aureus Species Isolated From Wounds in Tehran, Iran during 2012-2013. [Archives of Clinical Infectious Diseases](#). 2015;10(4).
69. [Ghasemian A](#), Najar-Peerayeh S, Bakhshi B, Mirzaee M. High prevalence of icaabcd genes responsible for biofilm formation in clinical isolates of staphylococcus aureus from hospitalized children. [Archives of Pediatric Infectious Diseases](#). 2015;3(3).
70. [Ghasemian A](#), Peerayeh SN, Bakhshi B, Mirzaee M. The microbial surface components recognizing adhesive matrix molecules (MSCRAMMs) genes among clinical isolates of Staphylococcus aureus from hospitalized children. [Iranian journal of pathology](#). 2015;10(4):258.
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72. [Ghasemian A](#), NAJAR PS, Bakhshi B. The comparison of staphylococcus aureus isolated from blood and wound specimens for genes encoding polysaccharide intercellular adhesion (PIA). 2015.
73. Mirzaee M, Najar Peerayeh S, [Ghasemian A-M](#). Detection of icaABCD genes and biofilm formation in clinical isolates of methicillin resistant Staphylococcus aureus. [Iranian Journal of Pathology](#). 2014;9(4):257-62.
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aureus isolated from intensive care unit. [Journal of Mazandaran University of Medical Sciences](#). 2014;24(115):43-51.

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79- Kanaan MH, Al-Shadeedi SM, Al-Massody AJ, Ghasemian A. Drug resistance and virulence traits of Acinetobacter baumannii from Turkey and chicken raw meat. *Comparative immunology, microbiology and infectious diseases*. 2020 Jun 1;70:101451.

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- 85- Abdulridha MK, Al-Marzoqi AH, Ghasemian A. The anticancer efficiency of *Citrullus colocynthis* toward the colorectal cancer therapy. *Journal of gastrointestinal cancer*. 2020 Jun;51(2):439-44.
- 86- Imani F, Mubarak SM, Mostafavi SK, Khoda-Bakhshi M, Bojary MR, Ghasemian A. Antibacterial effects of local analgesics and anesthetics. *Reviews in Medical Microbiology*. 2020 Jan 1;31(1):47-50.
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- 91- Mhawesh AA, Hamid DM, Ghasemian A. Phylogrouping, Serogrouping, Virulence Factors and Carbapenemase Genes among Carbapenemase-Producing *Escherichia Coli* From Urinary Tract Infections. *Indian Journal of Forensic Medicine & Toxicology*. 2021 Apr 1;15(2):2997.
- 92- Hemeed RN, Al-Tu'ma FJ, Al-Koofee DA, Al-Mayali AH, Ghasemian A. Relationship of angiotensin converting enzyme (I/D) polymorphism (rs4646994) and ischemic heart disease in Iraqi patients with type 2 diabetes mellitus.

Romanian Journal of Diabetes Nutrition and Metabolic Diseases. 2020 Dec 30;27(4):372-80.

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94- Kanaan MH, Anah SA, Jasim GA, Ghasemian A. In-vitro protoscolicidal and immunomodulatory effects of *Cinnamomum camphora* and *Ziziphora tenuior* against *Echinococcus granulosus* protoscolices. *Reviews in Medical Microbiology*. 2020 Dec 22.

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